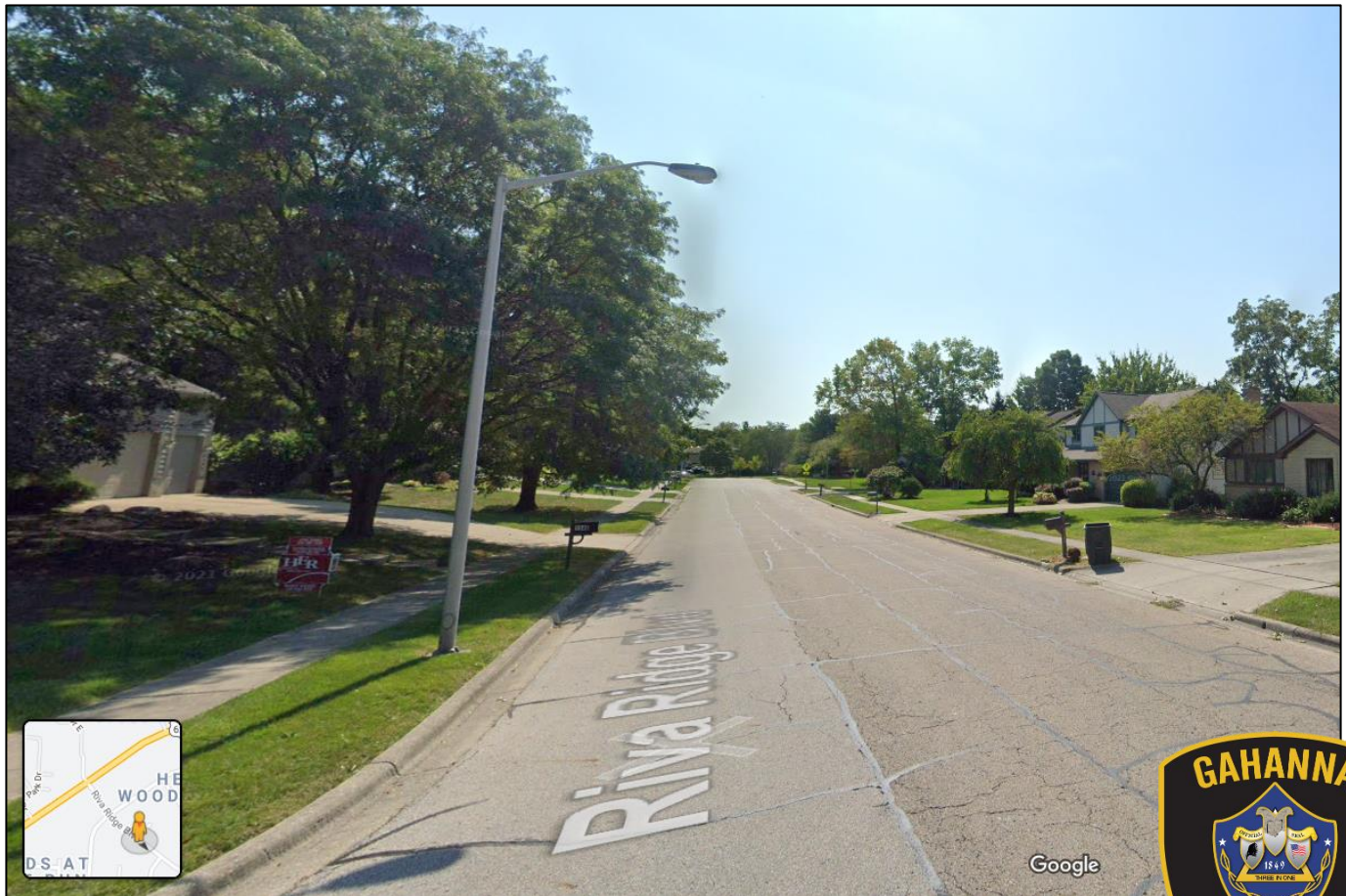


Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



Field Services Subdivision

Traffic Survey

Riva Ridge Boulevard 6-21-21 to 7-12-21

460 Rocky Fork Blvd.

Gahanna, Ohio 43230

614-342-4240

WWW.GAHANNA.GOV

Survey Device: Speed Monitoring and Notification Device (SMND) # 1129

Survey Operator: Lt. Ethan Moffitt # L-58

Device Location: Riva Ridge Boulevard at Black Gold Avenue

Device Direction: Facing southeast bound traffic (coming from US RT 62/E. Johnstown Road)

Speed Limit: 25 MPH

Survey Dates: 06-21-21 to 07-12-21

Survey Reason: Resident complaint/request for speed mitigation

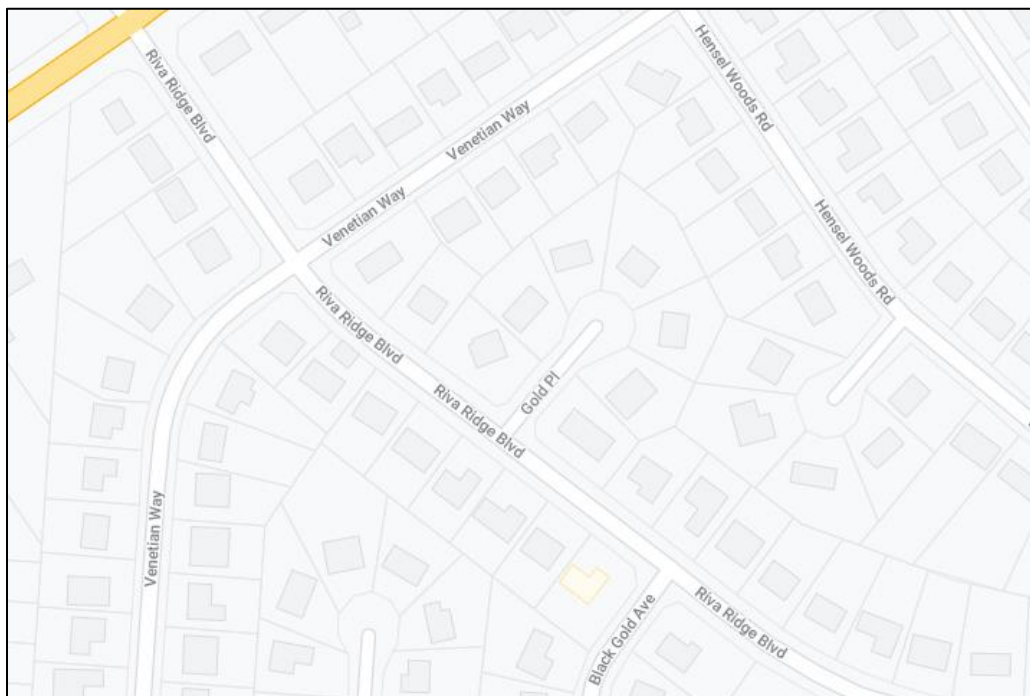
Summary –

On 06-21-21, SMND # 1129 was deployed on Riva Ridge Boulevard, a location associated with previous community reports of excessive speed. The device was deployed in order to provide a continuous speed mitigation presence.

The SMND recorded the speed of 30,206 vehicles (combined southeast bound and northwest bound traffic). Of those, 10,988 or 37%, were traveling in excessive of the posted speed limit and 19,212, or 63%, were traveling below the speed limit. The average speed of vehicles traveling above the posted limit was 28.7 MPH and the overall average speed (vehicles both below and above the posted limit) was 22.6 MPH. The 85th percentile speed was 29 MPH, meaning that 85% of the vehicles were traveling at a speed of 29 MPH or less.

Three hundred and sixty-one vehicles were traveling in excess of 35 MPH, accounting for approximately 1% of the total count (30,206) and just over 3% of the over-limit count (10,988). Conversely, 97% of vehicles traveling above the speed limit were going between 26 and 35 MPH.

The survey results demonstrate that the presence of the SMND was an effective mitigation measure. There was substantial compliance with the posted speed limit during the deployment period.

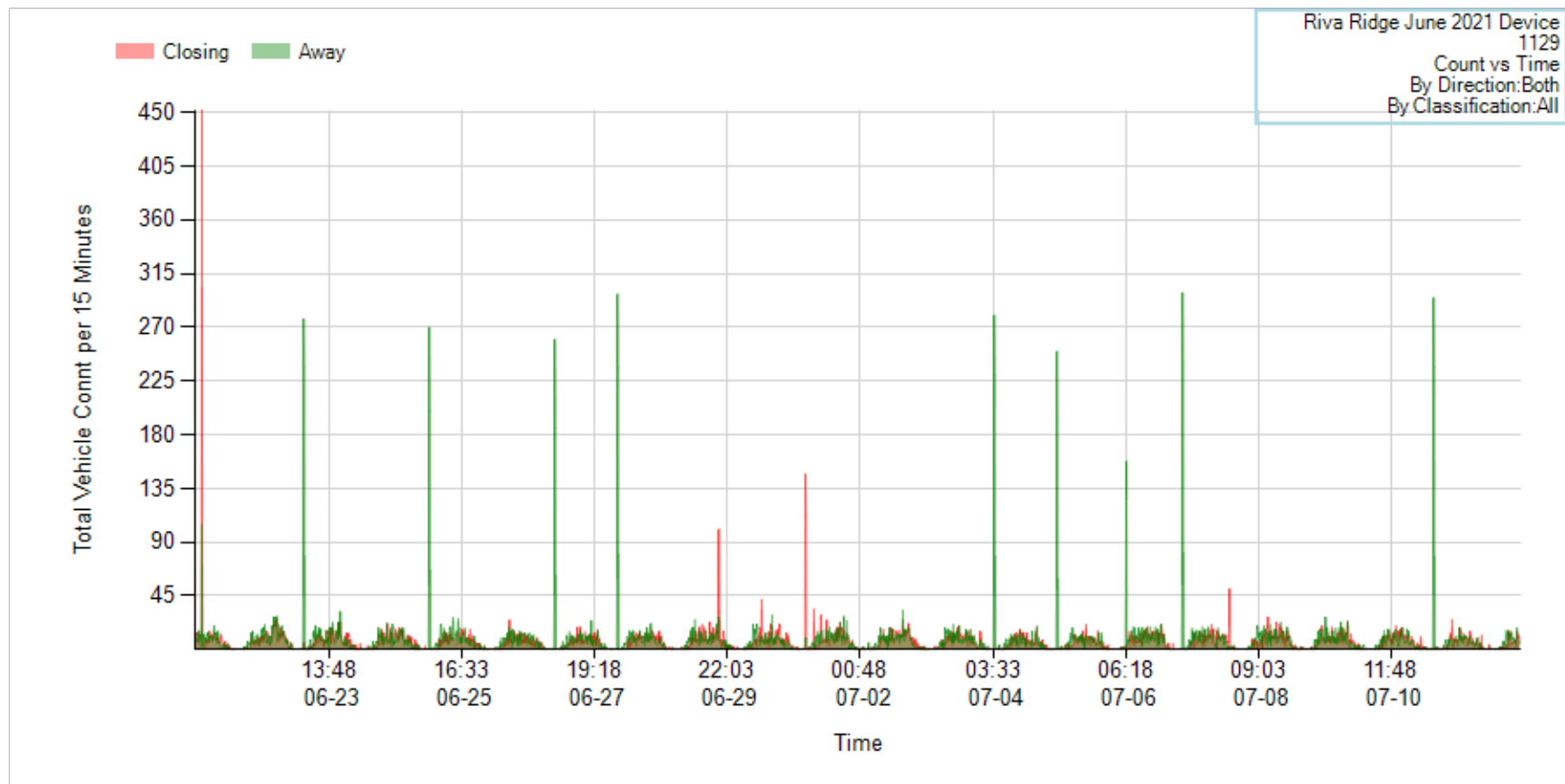




GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Count vs. Time



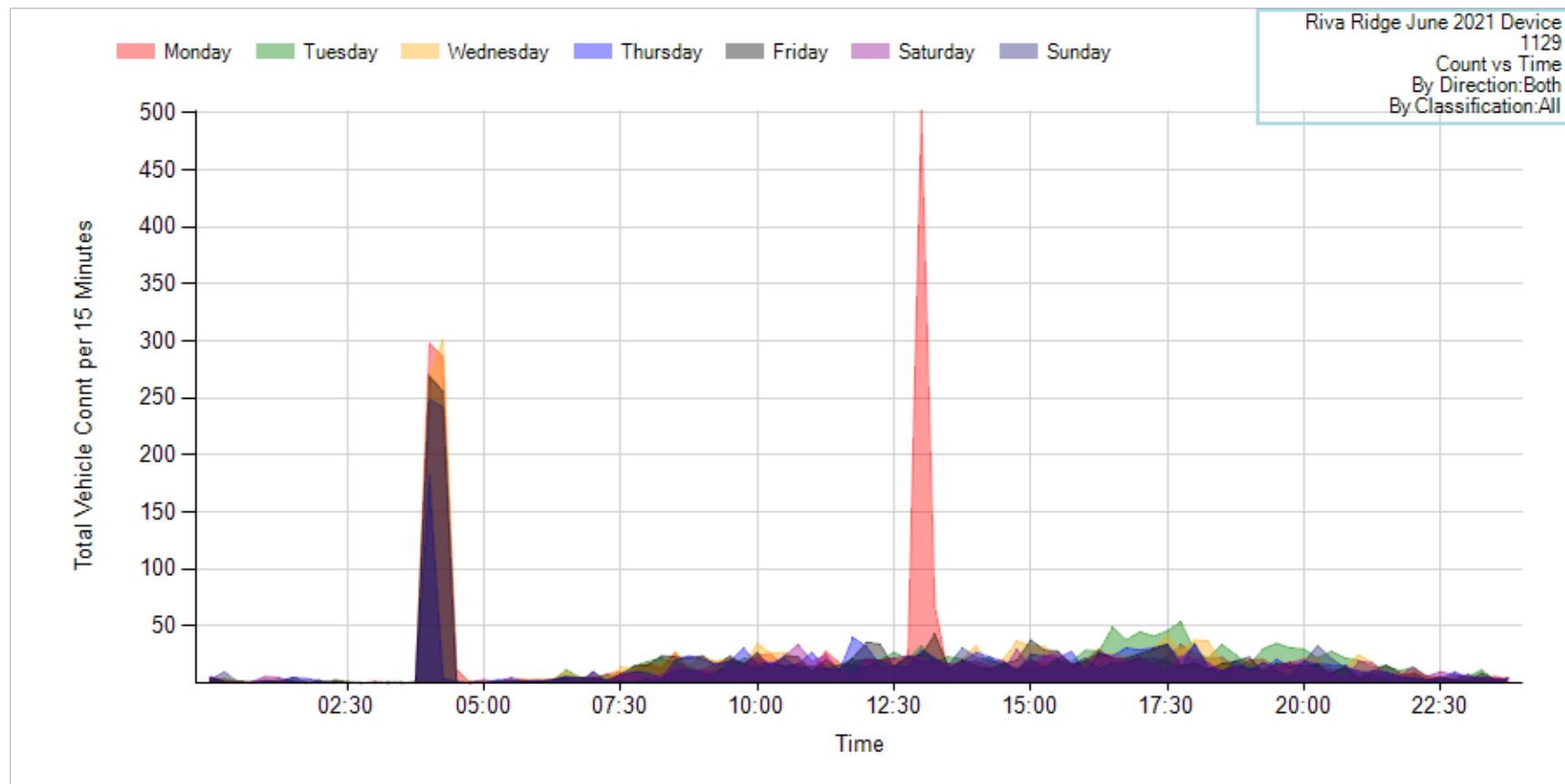
Survey Name	Riva Ridge June 2021 DeSpeed Unit	Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988 36.4%
Stop Date	2021-07-12			Min Speed	10	MPH	Under Limit Count	19218 63.6%
				85th Percentile	29	MPH	Over Threshold Count	361 1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	15523 51.4%



GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Weekly Count vs. Time



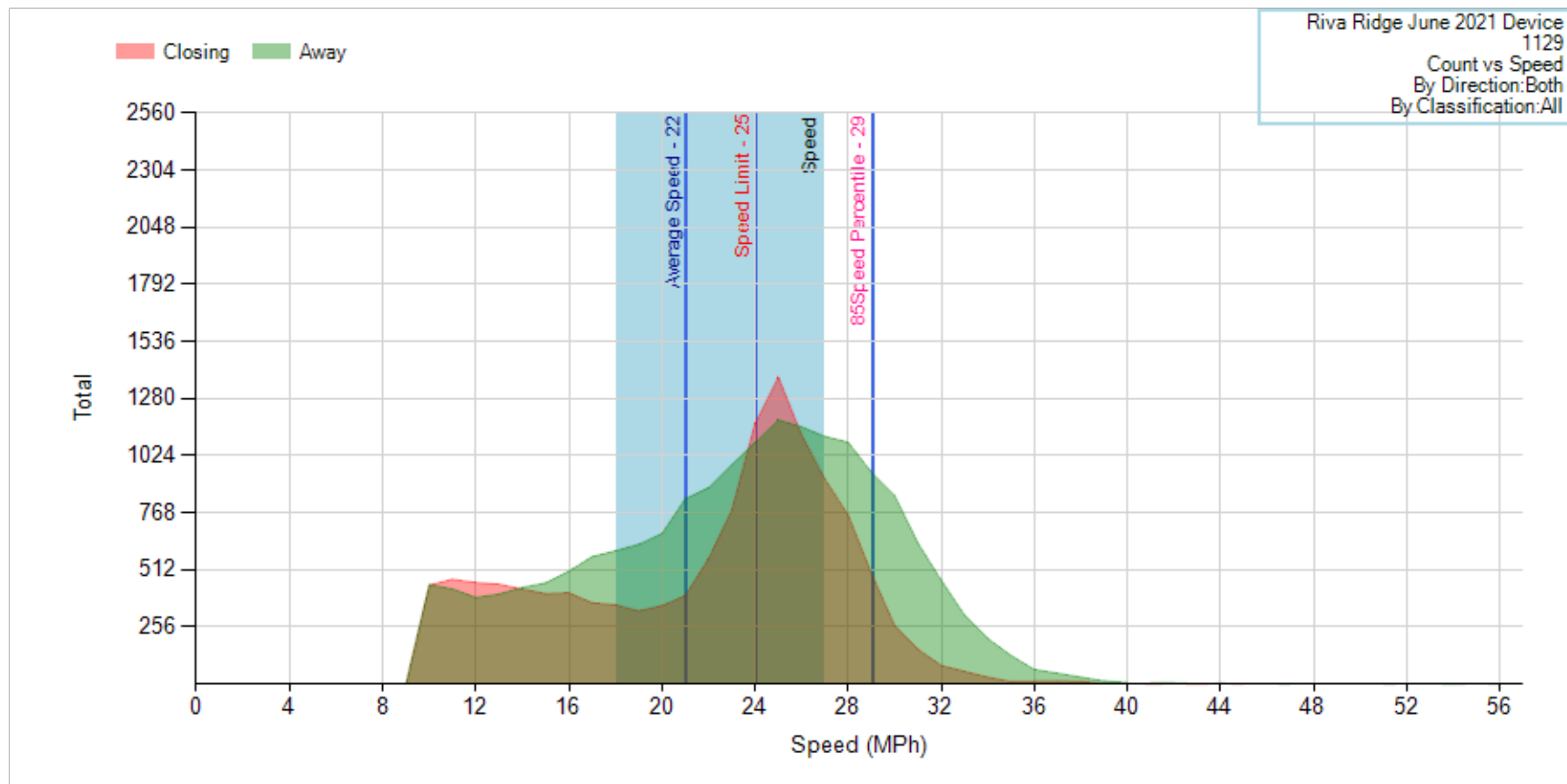
Survey Name	Riva Ridge June 2021 DeSpeed Unit		Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988	36.4%
Stop Date	2021-07-12			Min Speed	10	MPH	Under Limit Count	19218	63.6%
				85th Percentile	29	MPH	Over Threshold Count	361	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	15523	51.4%



GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Count vs. Speed



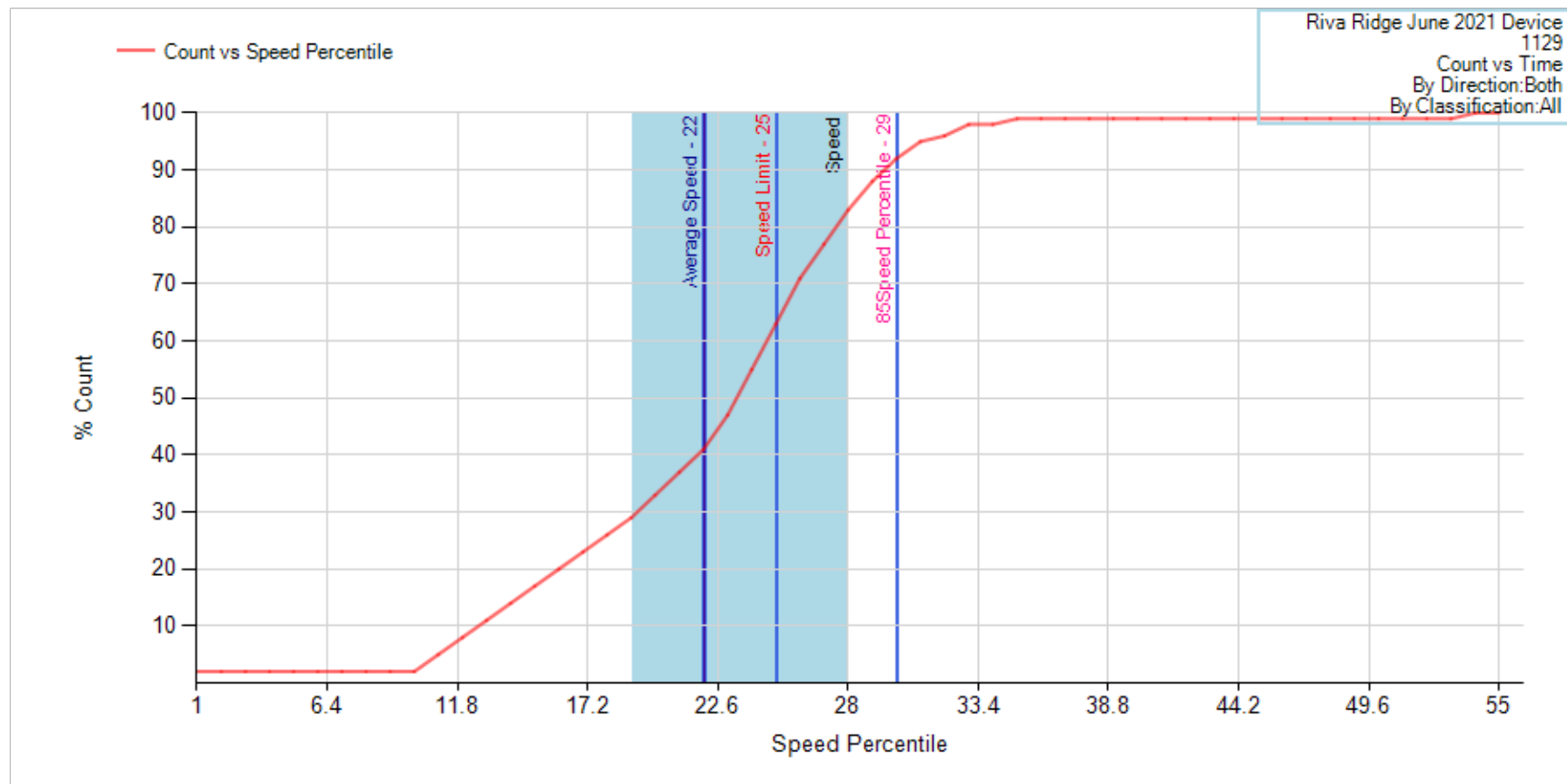
Survey Name	Riva Ridge June 2021 DeSpeed Unit		Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988	36.4%
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				10 MPH Pace	18 - 27	MPH	In Pace Count	15523	51.4%



GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Percentile Chart



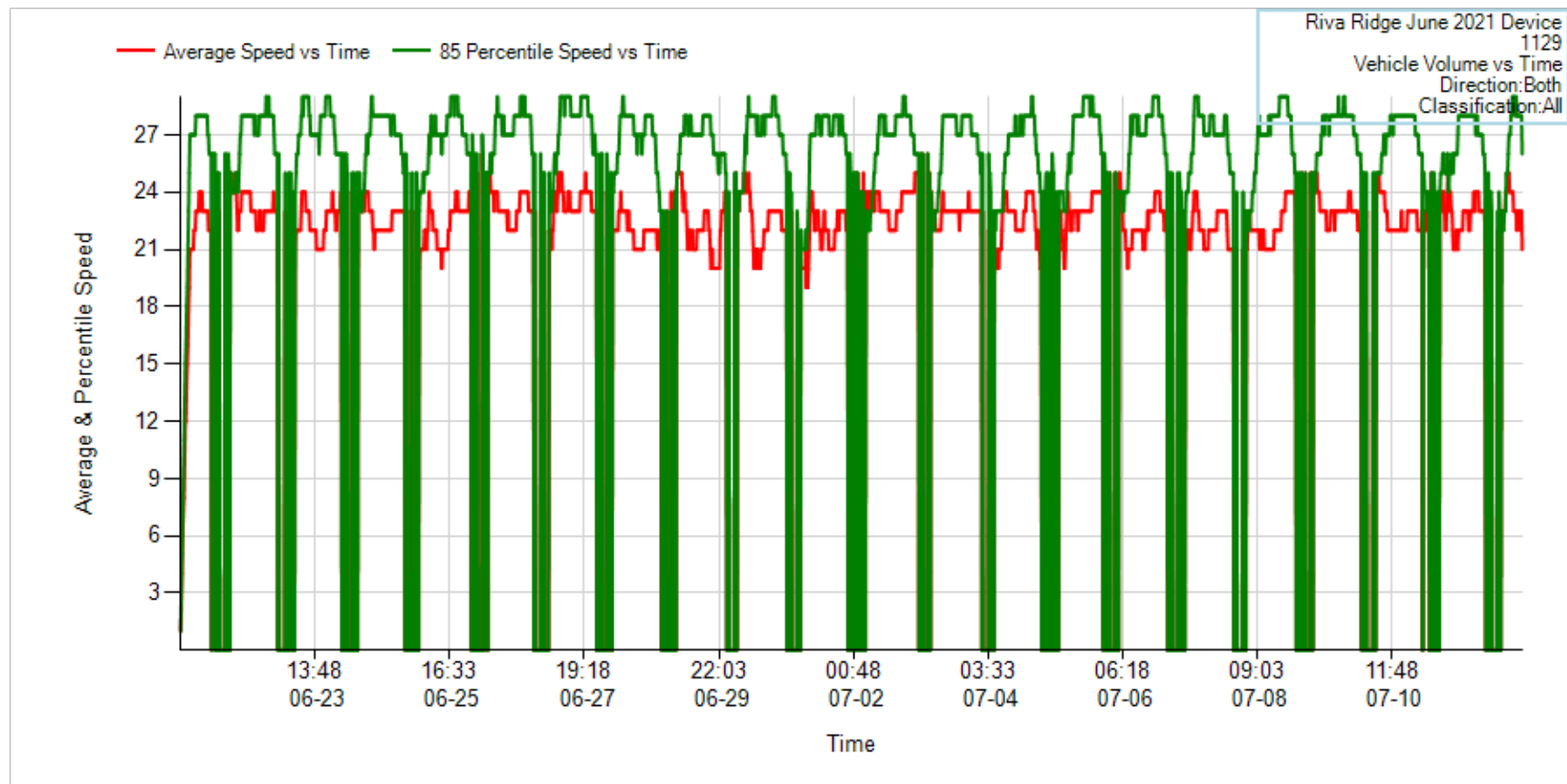
Survey Name	Riva Ridge June 2021 DeSpeed Unit		Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988	36.4%
Stop Date	2021-07-12			Min Speed	10	MPH	Under Limit Count	19218	63.6%
				85th Percentile	29	MPH	Over Threshold Count	361	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	15523	51.4%



GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Average Speed vs. Time



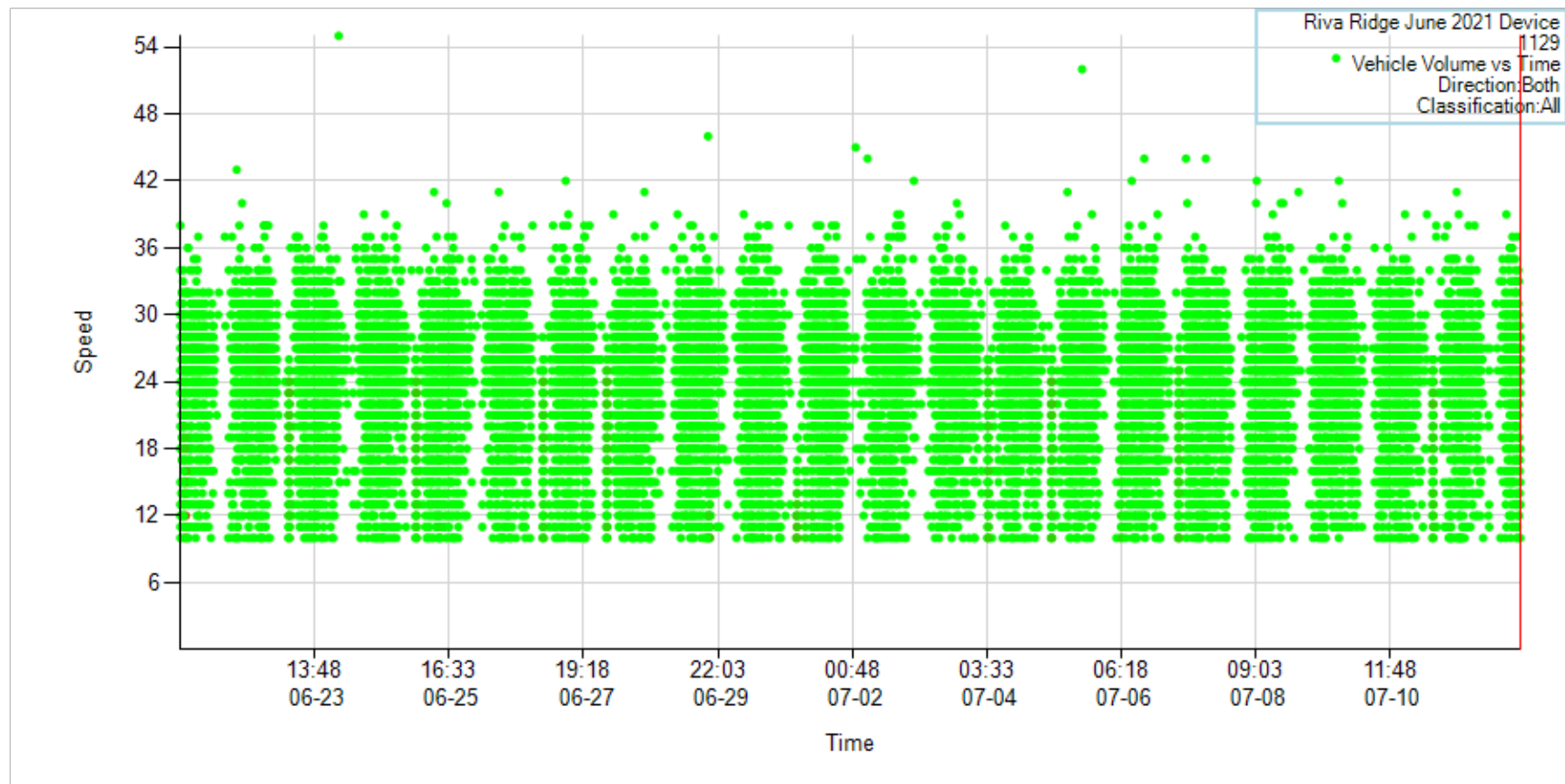
Survey Name	Riva Ridge June 2021 DeSpeed Unit		Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988	36.4%
Stop Date	2021-07-12			Min Speed	10	MPH	Under Limit Count	19218	63.6%
				85th Percentile	29	MPH	Over Threshold Count	361	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	15523	51.4%



GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY



Speed vs. Time Bubble Chart



Survey Name	Riva Ridge June 2021 DeSpeed Unit		Miles/Hour	Average Speed	22.6	MPH	Total Volume	30206	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	10988	36.4%
Stop Date	2021-07-12			Min Speed	10	MPH	Under Limit Count	19218	63.6%
				85th Percentile	29	MPH	Over Threshold Count	361	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	15523	51.4%

GAHANNA DIVISION OF POLICE RIVA RIDGE BOULEVARD - JUNE 2021 SPEED SURVEY

Survey Name	Riva Ridge June 2021 Device...	Location	1145 Riva Ridge Boulevard,G...	Speed Unit	Miles/Hour
Start	2021-06-21 11:03	Traffic Direction	Undefined	Speed Limit	25
Stop	2021-07-12 13:07	Zone	Normal	Min Speed Threshold	10
Operator	000	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	30206	100%	Average Speed	22.6	MPH	In Pace Count	15523	51%
Under Limit Count	19218	63%	Minimum Speed	10	MPH	10 mph Pace	18 - 27	MPH
Over Limit Count	10988	37%	Maximum Speed	55	MPH	Standard Deviation	6	MPH
10 Over Limit Count	361	1%	85Speed Percentile	29	MPH	Average Speed Over Limit	28.7	MPH



Survey Report Quick Guide/Reference

Over Threshold Count

The default threshold (amount over the posted speed limit) is 10 MPH. The **Over Threshold Count** is the number of vehicles traveling in excess of the selected threshold. For example, if the threshold is set at the 10 MPH default, this would indicate the number of vehicles (within the Total Volume) that were traveling at 10 MPH over the posted limit.

Count vs. Time

The **Count vs Time Chart** shows the number of vehicles per unit of time traveling on the monitored roadway.

Weekly Count vs. Time Chart

The **Weekly Count vs. Time Chart** mode shows the vehicle count per day over a 7-day period. If the survey period extends beyond one 7-day week, the values of each overlapped week day will be the average values for those overlapped week days.

Count vs. Speed Chart

The **Count vs. Speed Chart** selection shows the total vehicle count for each speed group. The size of the speed group can be set by the operator (**Speed Resolution** selection in the **Analysis Control**).

Percentile Chart

The **Percentile Chart** shows the cumulative percentage of vehicles that are at or below a given speed.

Average Speed vs. Time Chart

The **Average Speed vs. Time Chart** shows the average and the 85th Percentile Speeds of the vehicles over time.

Speed vs. Time Bubble Chart

The **Speed vs. Time Bubble Chart** plots both vehicle speed and volume against time. The size of the bubble represents the number of cars at a particular speed group at a particular time. This chart is useful in showing traffic bunching.

Average Speed

The average speed of all vehicles

85th Speed Percentile

The speed at which 85% of the traffic was traveling **at or less than**. The 85th percentile is considered to be a key metric because it is generally considered to be representative of prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).